

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/22415

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/53

US CL : 435/7.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 435/7.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0192231 (Zhu et al.) 19 December 2002 (19.12.2002) , Sections 0003, 0009, 0073 to 0082.	19, 21
Y	US 5045532 (Valle et al.) 3 September 1991 (3.09.1991), Col. 1, line 42-50; drawings followed by Col. 1; Col. 10, line 35-65; claims 8-10.	1-18, 20
Y	US 5059680 (Davis et al.) 22 October 1991 (22.10.1991), Col. 8, line 50-60.	13, 20
Y	EP 0316818 (Kawamura et al.) 11 November 1988 (11.11.1988), whole document	14-18
A	US 4695198 (Yamasaki et al.) 23 October 1990 (23.10.1990), whole document	1-21



Further documents are listed in the continuation of Box C.



See patent family annex.

<p>Special categories of cited documents:</p>	
<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p>
<p>"E" earlier application or patent published on or after the international filing date</p>	<p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p>
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<p>"O" document referring to an oral disclosure, use, exhibition or other means</p>	
<p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"&" document member of the same patent family</p>

Date of the actual completion of the international search

22 April 2005 (22.04.2005)

Date of mailing of the international search report

29 JUL 2005

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